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Table A104-7—NMOG Standards (g/mi) for Flexible- and Dual-Fueled Vehicles When Operating on Clean Alternative Fuel for Light Light-Duty Trucks and Light-Duty Vehicles—Continued

Vehicle type	50,000 mile NMOG standard	100,000 mile NMOG standard
LDTs (3,751–5,750 lbs. LVW)	.100	.130

TABLE A104–8—NMOG STANDARDS (G/MI) FOR FLEXIBLE- AND DUAL-FUELED VEHICLES WHEN OPERATING ON CLEAN ALTERNATIVE FUEL FOR HEAVY LIGHT-DUTY TRUCKS

Vehicle type	50,000 mile NMOG standard	120,000 mile NMOG standard
Beginning MY 1998: LDTs (0-3,750 lbs. ALVW) LDTs (3,751-5,750 lbs. ALVW) LDTs (5,751-8,500 lbs. ALVW)	0.125 .160 .195	0.180 .230 .280

TABLE A104–9—NMOG STANDARDS (G/MI) FOR FLEXIBLE- AND DUAL-FUELED VEHICLES WHEN OPERATING ON CONVENTIONAL FUEL FOR LIGHT-DUTY TRUCKS AND LIGHT-DUTY VEHICLES

Vehicle type	50,000 mile NMOG standard	100,000 mile NMOG standard
Beginning MY 1996:		
LDTs (0-3,750 lbs. LVW) and LDVs	0.25	0.31
LDTs (3,751–5,750 lbs. LVW)	.32	.40
Beginning MY 2001:		
LDTs (0–3,750 lbs. LVW) and LDVs	.125	.156
LDTs (3,751–5,750 lbs. LVW)	.160	.200

Table A104–10—NMOG Standards (g/mi) for Flexible- and Dual-Fueled Vehicles When Operating on Conventional Fuel for Light Light-Duty Trucks

Vehicle type	50,000 mile NMOG standard	120,000 mile NMOG standard
Beginning MY 1998: LDTs (0-3,750 lbs. ALVW) LDTs (3,751–5,750 lbs. ALVW) LDTs (5,751–8,500 lbs. ALVW)	0.25 .32 .39	0.36 .46 .56

[59 FR 50074, Sept. 30, 1994, as amended at 61 FR 127, Jan. 3, 1996]

§ 88.105-94 Clean-fuel fleet emission standards for heavy-duty engines.

- (a) Exhaust emissions from engines used in heavy-duty low emission vehicles shall meet one of the following standards:
- (1) Combined emissions of oxides of nitrogen and nonmethane hydrocarbons (or nonmethane hydrocarbon equivalent) shall not exceed 3.8 grams per brake horsepower-hour.
- (2) Combined emissions of oxides of nitrogen and nonmethane hydrocarbons (or nonmethane hydrocarbon equivalent) shall not exceed 3.5 grams per brake horsepower-hour when tested

(certified) on fuel meeting the specifications of California certification

- (b) Exhaust emissions from engines used in heavy-duty low emission vehicles shall meet conventional vehicle standards set forth in Part 86 for total hydrocarbon, carbon monoxide, particulate, and organic material hydrocarbon equivalent.
- (c) Exhaust emissions from engines used in ultra-low emission heavy-duty vehicles shall meet each of the following standards:

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- (1) The combined emissions of oxides of nitrogen and nonmethane hydrocarbons (or nonmethane hydrocarbon equivalent) shall not exceed 2.5 grams per brake horsepower-hour.
- (2) Carbon monoxide emissions shall not exceed 7.2 grams per brake horse-power-hour.
- (3) Particulate emissions shall not exceed 0.05 grams per brake horse-power-hour.
- (4) Formaldehyde emissions shall not exceed 0.025 grams per brake horse-power-hour.
- (d) Exhaust emissions from engines used in inherently-low emission heavy-duty vehicles shall meet each of the following standards:
- (1) The combined emissions of oxides of nitrogen and nonmethane hydrocarbons (or nonmethane hydrocarbon equivalent) shall not exceed 2.5 grams per brake horsepower-hour.
- (2) Carbon monoxide emissions shall not exceed 14.4 grams per brake horse-power-hour.
- (3) Particulate emissions shall not exceed 0.10 grams per brake horse-power-hour.
- (4) Formaldehyde emissions shall not exceed 0.05 grams per brake horse-power-hour.
- (e) The standards set forth in paragraphs (a), (b), (c), and (d) of this section refer to the exhaust emitted while the vehicle is being tested in accordance with the applicable test procedures set forth in 40 CFR part 86, subpart N.
- (f)(1) A heavy-duty zero-emission vehicle (ZEV) has a standard of zero emissions for nonmethane hydrocarbons, oxides of nitrogen, carbon monoxide, formaldehyde, and particulates
- (2) A heavy-duty vehicle shall be certified as a ZEV if it is determined by engineering analysis that the vehicle satisfies the following conditions:
- (i) The vehicle fuel system(s) must not contain either carbon or nitrogen compounds (including air) which, when burned, form nonmethane hydrocarbons, oxides of nitrogen, carbon monoxide, formaldehyde, or particulates as exhaust emissions.
- (ii) All primary and auxiliary equipment and engines must have no emissions of nonmethane hydrocarbons, ox-

ides of nitrogen, carbon monoxide, formaldehyde, and particulates.

- (iii) The vehicle fuel system(s) and any auxiliary engine(s) must have no evaporative emissions.
- (iv) Any auxiliary heater must not operate at ambient temperatures above 40 degrees Fahrenheit.
- (g) All heavy-duty engines used in low emission, ultra-low emission, or zero emission vehicles shall also comply with all applicable standards and requirements of 40 CFR part 86, except that any exhaust emission standards in 40 CFR part 86 pertaining to pollutants for which standards are established in this section shall not apply.

[59 FR 50077, Sept. 30, 1994]

Subpart B—California Pilot Test Program

§ 88.201-94 Scope.

Applicability. The requirements of this subpart shall apply to the following:

- (a) State Implementation Plan revisions for the State of California and other states pursuant to compliance with section 249 of the Clean Air Act, as amended in 1990.
- (b) Vehicle manufacturers with sales in the State of California.

[57 FR 60046, Dec. 17, 1992, as amended at 59 FR 50077, Sept. 30, 1994]

§ 88.202-94 Definitions.

- (a) The definitions in subpart A also apply to this subpart.
- (b) The definitions in this subpart shall apply beginning with the 1992 model year.

Averaging for clean-fuel vehicles means the sale of clean-fuel vehicles that meet more stringent standards than required, which allows the manufacturer to sell fewer clean-fuel vehicles than would otherwise be required.

Banking means the retention of credits, by the manufacturer generating the emissions credits, for use in future model-year certification as permitted by regulation.

Sales means vehicles that are produced, sold, and distributed (in accordance with normal business practices and applicable franchise agreements) in the State of California, including